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2014

# College of Medical Sciences Master of Biomedical Sciences 2014

Nova Southeastern University

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COLLEGE OF MEDICAL SCIENCES

# Master of Biomedical Sciences

HEALTH PROFESSIONS DIVISION • Entering Class 2014



NOVA SOUTHEASTERN  
UNIVERSITY

# MASTER OF BIOMEDICAL SCIENCES

The College of Medical Sciences joins the Colleges of Osteopathic Medicine, Pharmacy, Optometry, Health Care Sciences, Dental Medicine, and Nursing as one of the prime educational institutions in NSU's Health Professions Division. The master's degree is offered to increase college graduates' opportunities and options in the science and health fields. The program is limited to graduates holding a bachelor's degree and may be used to

- supplement an undergraduate record with an enhanced science preparation in order to become eligible for admission to any of the health fields
- enhance the student's possibilities of being accepted into NSU's College of Osteopathic Medicine or College of Dental Medicine by demonstrating added competence in the required sciences

## **FACULTY**

The College of Medical Sciences is staffed with 32 faculty members, most of whom possess doctoral degrees in their fields. Because of the small size of the master's degree program, there is an opportunity for small group instruction and for a close working relationship with an adviser and other members of the science faculty.

# DESCRIPTION OF FACILITIES

The Health Professions Division (HPD) occupies 21 acres and 900,000 square feet of space on the Nova Southeastern University main campus. The HPD's seven colleges are based in a five-story administration building, with the upper floors consisting of the colleges' headquarters, division administration, and faculty offices. The first floor is student-related, devoted to the Office of Admissions, the Office of Student Financial Assistance, and a cafeteria.

Just north of the administration building is the assembly building. This consists of a 500-seat auditorium; a 250-seat auditorium; and eight 126-seat, amphitheater-style classrooms. Connected to this is a three-story library/laboratory building. On the first floor is a 20,000-square-foot library with a 100-seat classroom devoted to cardiac teaching using HARVEY, a computerized heart-sound mannequin that duplicates the signs and symptoms of most normal and abnormal heart conditions. Patient simulation training rooms and a 50-station computer laboratory for student use are also on the first floor. The second and third floors house laboratories, a student lounge, and a research area.

Just north of the library/laboratory building is the medical services building with facilities for primary health care, rehabilitative services, and primary and secondary eye care. A three-story building houses the College of Dental Medicine's educational facilities and clinics. Just south of the dental building, the university has a building with a 300-seat auditorium and study rooms for students. Behind these structures is an 1,800-vehicle parking garage, readily accessible to the university community.

# DESCRIPTION OF PROGRAM CURRICULUM

All programs are designed for the individual student's needs, as agreed upon by the adviser and the dean.

Required coursework for the first year consists mainly of basic science classes taught in the Health Professions Division such as anatomy, biochemistry, physiology, and microbiology. During a semester, students are required to complete at least 9 semester hours; more may be assigned. The semester hour requirements in the second year are similar to the first year. The college reserves the right to vary these hours within reason. In addition, all students are required to attend a seminar course.

The Master of Biomedical Sciences (M.B.S.) degree takes at least four semesters to complete. A minimum of 36 semester hours is required for completion of the program. A time limit of five calendar years from the date of matriculation is placed on coursework to be credited to the degree. No more than 6 hours of the 36 semester hours required for the degree can be transferred from another institution. Only graduate courses with a grade of *B* or better, after approval by the student's advisory committee and the dean, will be accepted.





# COURSE OFFERINGS

COURSE #	COURSE TITLE	CREDIT HOURS
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## ANATOMY

ANA 5713	Histology	3
ANA 5714	Medical Histology	3
ANA 5744	Gross Anatomy	5
ANA 5723	Neuroanatomy	3
ANA 5727	Gross Anatomy	6
ANA 5500	Neuroanatomy	3
ANA 6700	Special Topics	1-6

## BIOCHEMISTRY

BCH 5715	Medical Biochemistry	5
BCH 5735	Biochemistry and Nutrition	4
BCH 6700	Special Topics	1-6

## MICROBIOLOGY

MIC 1710	Dental Microbiology I	3
MIC 1711	Dental Microbiology II	2
MIC 5727	Medical Microbiology	5.5
MIC 6700	Special Topics	1-6

## PATHOLOGY

PTH 5500	General Pathology	3
PTH 6700	Special Topics	1-6

## PHARMACOLOGY

PCO 5504	Pharmacology I	4
PCO 5503	Pharmacology II	3
PCO 6700	Special Topics	1-6

## PHYSIOLOGY

PHS 5723	Medical Physiology I	3
PHS 5724	Medical Physiology II	4
PHS 5500	Physiology	4
PHS 6700	Special Topics	1-6

## REQUIRED CORE COURSES

CMS 5702	Seminar	1-4
COMS 6700	Special Topics	1-6

# ADMISSIONS REQUIREMENTS

In order to be considered for admission into the master's degree program, the student must meet the following requirements:

- a bachelor's degree from a regionally accredited college or university
- completion of a minimum of 8 semester hours with a grade of *C* (2.0 GPA) or higher in each of the following—biology with lab, general chemistry with lab, organic chemistry with lab, and general physics with lab
- completion of a minimum of 6 semester hours in each course of English or literature with a grade of *C* (2.0 GPA) or higher
- a minimum cumulative GPA of 2.5 on a 4.0 scale
- scores from the Medical College Admission Test (MCAT) or Dental Admission Test (DAT), not more than three years old



## **ADDITIONAL PREPARATION**

Applicants are highly encouraged to take supplementary, upper-division courses in advanced sciences such as, but not limited to, biochemistry, microbiology, cell biology, physiology, anatomy, immunology, genetics, histology, molecular biology, virology, and bacteriology.

The dean of the College of Medical Sciences is empowered to evaluate the total qualifications of every student and to modify requirements in unusual circumstances.

It should be noted that many criteria, in addition to academic credentials, play a role in the admissions process to professional schools. While the biomedical sciences program does provide an opportunity for the student to demonstrate academic capability, it does not assure admission to any professional school. Admission to the graduate program or completion of courses will not guarantee admission to any other program of Nova Southeastern University.

Admissions information for the master's degree program may be obtained from the

### **NOVA SOUTHEASTERN UNIVERSITY**

Health Professions Division

Office of Admissions

3200 South University Drive

Fort Lauderdale, Florida 33328-2018

The telephone number is 877-640-0218 or (954) 262-1101.

Applications are available at <http://medsciences.nova.edu>.

This brochure is for information purposes only and does not represent a contract. Information contained herein is subject to change at any time by administrative decision or the direction of the board of trustees. Updated information can be found on our Web site (<http://medsciences.nova.edu>).



# APPLICATION PROCEDURES

Candidates for admission must submit all of the following by April 15:

- a completed application form along with a \$50, nonrefundable application fee (The application period opens the first week of January and closes April 15.)
- official transcripts of all undergraduate, graduate, and professional coursework
- official scores from standardized tests such as the MCAT or DAT, not more than three years old
- one letter of recommendation from a preprofessional advisory committee, or if this does not exist, two letters may be substituted from instructors who can testify to the student's characteristics, integrity, application, and aptitude in science (If an applicant has been in the work world for a considerable period of time, two letters of recommendation from employers may be substituted.)





Upon receipt of the completed application and required credentials, the Committee on Admissions will select those applicants to be interviewed. All applicants who are eventually accepted into the program must be interviewed. An invitation to appear for an interview should not be construed by the applicant as evidence of acceptance.

The admissions process to the graduate program in biomedical sciences is not related in any way to the admissions process of any other program at Nova Southeastern University.

The completed application and all admissions material must be sent to the NSU Enrollment Processing Services (EPS) at the address listed below.

**NOVA SOUTHEASTERN UNIVERSITY**

Enrollment Processing Services (EPS)

College of Medical Sciences

Office of Admissions

3301 College Avenue

P.O. Box 299000

Fort Lauderdale, Florida 33329-9905

Students are provisionally admitted to a degree-seeking program based on a review of unofficial transcripts or other specific program admissions requirements. However, this admission includes a condition that final and official documents and requirements must be received within 90 calendar days from the start of the term. If these final and official documents and/or requirements are not received by that time, the student will not be allowed to continue class attendance. Financial aid will not be disbursed to a provisional/conditional student until he or she has been fully admitted as a regular student. (All admissions requirements have been approved by the college/program admissions office.)

# TUITION AND FEES

1. Tuition for 2013–2014 is \$34,500. Tuition for 2014–2015 will subsequently be posted on our Web site (<http://medsciences.nova.edu>). A Health Professions Division general access fee of \$145 is required each year. An NSU student services fee of \$945 is also required annually. Additionally, a microscope/lab fee of \$100 is required of all students each year. All tuition and fees are subject to change by the board of trustees without notice.
2. Acceptance fee is \$100. This fee is required to reserve the accepted applicant's place in the entering first-year class. This advance payment will be deducted from the tuition payment due on registration day, but is not refundable in case of withdrawal. It is payable within two weeks of the applicant's acceptance.
3. A deposit of \$400 is due two weeks after the notification of acceptance.
4. Preregistration fee is \$500, due July 15, under the same terms as the acceptance fee.
5. Student activities fee is \$100, payable at each fall registration.

The first semester's tuition and fees, less the \$1,000 previously paid, are due on or before registration day. Tuition for the subsequent semester is due on or before registration day for that semester. Students will not be admitted until their financial obligations have been met.

Nova Southeastern University admits students of any race, color, sex, age, nondisqualifying disability, religion or creed, sexual orientation, or national or ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students at the school, and does not discriminate in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other school-administered programs. ■ Nova Southeastern University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate's, baccalaureate, master's, educational specialist, doctorate, and professional degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Nova Southeastern University. 01-116-13MCP







**NOVA SOUTHEASTERN  
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**Health Professions Division  
3200 South University Drive  
Fort Lauderdale, Florida 33328-2018**

**Office of Admissions  
(954) 262-1101 • 877-640-0218**

**[www.nova.edu](http://www.nova.edu)**